

CLAMPING PLATE WITH INTEGRATED THERMAL INSULATION

ABSTRACT

In standardized mold making the structure of the mold is at present generally formed according to the following principle: A so-called clamping plate (**1** to **3**), having usually a larger width, is attached at the end of both half-molds and the other mold structure plates (**4**) are screwed thereto. The area of the clamping plate that projects the most on both sides is then used to connect the half-molds with the molding press. Thermal protection plates are often employed to minimize the heat transfer to the molding press. The thermal protection plates are commonly screwed onto the front surfaces of the clamping plates. This can lead to problems vis-a-vis the overall parallel alignment of the mold structures. The invention arises out of the underlying requirement to provide an optimal thermal protection over the entire equipment lifetime without limitations vis-a-vis the parallel alignment of the mold structures. This requirement is fulfilled in embodiments of the invention in that the clamping plate is provided as a multilayer composite panel having thermally-insulating steel components (**2**) and tool steel components (**1**) and (**3**), while the exterior sides are always made of tool steel.